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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.24	178.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.80	-2.80

=>
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L5 STRUCTURE UPLOADED

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.68	179.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.80	-2.80

FILE 'REGISTRY' ENTERED AT 19:37:22 ON 23 SEP 2004
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STRUCTURE FILE UPDATES: 22 SEP 2004 HIGHEST RN 749824-02-0
DICTIONARY FILE UPDATES: 22 SEP 2004 HIGHEST RN 749824-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
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to the file summary sheet on the web at:
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=> s l5
SAMPLE SEARCH INITIATED 19:37:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    174 TO ITERATE

100.0% PROCESSED     174 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         2689 TO     4271
PROJECTED ANSWERS:               0 TO        0

L6             0 SEA SSS SAM L5

=> search l5
ENTER TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT:.
ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:fu
'FU' IS NOT A VALID SEARCH SCOPE
ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:ful
FULL SEARCH INITIATED 19:37:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3473 TO ITERATE

100.0% PROCESSED    3473 ITERATIONS                                  1 ANSWERS
SEARCH TIME: 00.00.01

L7             1 SEA SSS FUL L5

=> file caplus'
'CAPLUS'' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:n

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.42     334.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -2.80

FILE 'CAPLUS' ENTERED AT 19:37:49 ON 23 SEP 2004
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FILE COVERS 1907 - 23 Sep 2004 VOL 141 ISS 13
FILE LAST UPDATED: 22 Sep 2004 (20040922/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 4 L7

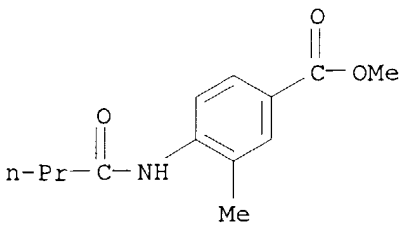
=> d fbib ab hitstr 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:69052 CAPLUS
DN 140:287333
TI Facile synthesis of novel nonpeptide angiotensin II receptor antagonists
AU Yang, Ling-Chun; Qi, Chuan-Min; Zhang, Guan-Xin; Zou, Nan-Zhi
CS Department of Chemistry, Beijing Normal University, Beijing, 100875, Peop. Rep. China
SO Journal of Heterocyclic Chemistry (2003), 40(6), 1107-1112
CODEN: JHTCAD; ISSN: 0022-152X
PB HeteroCorporation
DT Journal
LA English
OS CASREACT 140:287333
AB 1-(Arylmethyl)-6-(methyloxazolyl)-4-methyl-2-propylbenzimidazoles such as I are prepared as analogs of the angiotensin II receptor antagonist Losartan. For example, I is prepared in ten steps from 3-methyl-4-nitrobenzoic acid. Acid-mediated esterification of 3-methyl-4-nitrobenzoic acid with methanol, Raney nickel-catalyzed reduction of the nitro group with hydrazine, acylation of the free amino group with butyryl chloride, nitration with fuming nitric acid, reduction of the nitro group with Raney nickel and hydrazine, and cyclocondensation yields the benzimidazolecarboxylate intermediate II. Hydrolysis of the Me ester of II, cyclocondensation with 4-methyl-3-aminophenol hydrochloride to yield the benzoxazole moiety, regioselective alkylation of the imidazole with Me 4-(bromomethyl)-1,1'-biphenyl-2'-carboxylate, and ester hydrolysis with sodium hydroxide in water yields I. The use of hydrazine as a reagent for the Raney nickel-catalyzed reduction of nitro groups is effective when the hydrazine is added in small amts. to avoid side reactions; the use of palladium or stoichiometric metal reductants could thus be avoided. The yield of the nitration of Me 4-(propylcarbonylamino)-3-methylbenzoate with fuming nitric acid is significantly improved with inverse addition of the amide to the nitric acid solution at -20°--15°. Alkylation of the benzoxazole-containing intermediate derived from II using sodium hydride as a base gives higher yields than in previous alkylations using sodium tert-butoxide as the base. The use of an ester-containing alkylating agent rather than a nitrile-containing alkylating agent allows milder conditions to be used for hydrolysis to the corresponding carboxylic acid, resulting in fewer byproducts.
IT **301533-59-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 1-(arylmethyl)-6-(methyloxazolyl)-4-methyl-2-propylbenzimidazole analogs of Losartan as potential nonpeptide angiotensin II receptor antagonists)

RN 301533-59-5 CAPLUS

CN Benzoic acid, 3-methyl-4-[(1-oxobutyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:889540 CAPLUS

DN 137:386311

TI Preparation and use of palladium catalysts for cross-coupling reactions

IN Rodefeld, Lars; Hopfner, Thomas; Reisinger, Claus-Peter

PA Germany

SO U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

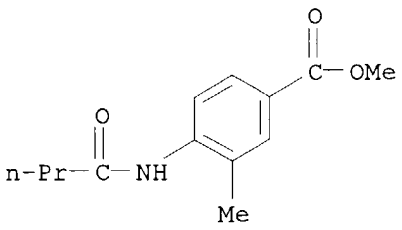
	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 2002173421	A1	20021121	US 2002-144080		20020513
				DE 2001-10123884	A	20010516
	DE 10123884	A1	20021121	DE 2001-10123884		20010516
	EP 1260270	A1	20021127	EP 2002-9343		20020503
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
				DE 2001-10123884	A	20010516
	JP 2003019436	A2	20030121	JP 2002-133832		20020509
				DE 2001-10123884	A	20010516
	CN 1385244	A	20021218	CN 2002-119915		20020516
				DE 2001-10123884	A	20010516

OS MARPAT 137:386311

AB Meterable solns. or dispersions of palladium catalysts Pd(Ar)L2X [Ar = (un)substituted aryl; L = phosphine ligand; X = anion] are manufactured by reacting (un)substituted chloroarom., bromoarom. or iodoarom. compds. or arenesulfonates with phosphine or diphosphine ligands and Pd salts. For example, refluxing a mixture of Pd(OAc)2 3.2, Ph3P 18.9 and 4-BrC6H4COMe for 1 h in 800 g 1,4-dioxane and stirring for 1 h at reflux temperature gave a title catalyst solution Stirring p-BrC6H4CO2Me, CH2:CHCO2Me and NaOAc in Me2NAc in the presence of the above catalyst gave p-HO2CCH2C6H4CH:CHCO2Me in 72% yield.

IT **301533-59-5P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation and use of palladium catalysts for cross-coupling reactions)

RN 301533-59-5 CAPLUS
CN Benzoic acid, 3-methyl-4-[(1-oxobutyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:730686 CAPLUS
DN 135:272759
TI Method for producing methyl 4-butanamido-3-methylbenzoate and the novel compound N-(4-bromo-2-methylphenyl)butanamide
IN Rodefeld, Lars; Hoepfner, Thomas; Klausener, Alexander; Behre, Horst
PA Bayer Aktiengesellschaft, Germany
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072690	A2	20011004	WO 2001-EP2924	20010315
	WO 2001072690	A3	20020228		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				DE 2000-10015279 A	20000328
	DE 10015279	A1	20011004	DE 2000-10015279	20000328
	AU 2001060124	A5	20011008	AU 2001-60124	20010315
				DE 2000-10015279 A	20000328
				WO 2001-EP2924 W	20010315
	EP 1268400	A2	20030102	EP 2001-933703	20010315
	EP 1268400	B1	20040811		
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				DE 2000-10015279 A	20000328
				WO 2001-EP2924 W	20010315
	JP 2003528846	T2	20030930	JP 2001-570605	20010315
				DE 2000-10015279 A	20000328
				WO 2001-EP2924 W	20010315
	AT 273270	E	20040815	AT 2001-933703	20010315
				DE 2000-10015279 A	20000328
				WO 2001-EP2924 W	20010315
	US 2003065211	A1	20030403	US 2002-239678	20020924

	US 6620962	B2	20030916			
				DE 2000-10015279	A	20000328
				WO 2001-EP2924	W	20010315
	US 2004030183	A1	20040212	US 2003-633863		20030804
				DE 2000-10015279	A	20000328
				WO 2001-EP2924	W	20010315
				US 2002-239678	A3	20020924

OS CASREACT 135:272759; MARPAT 135:272759

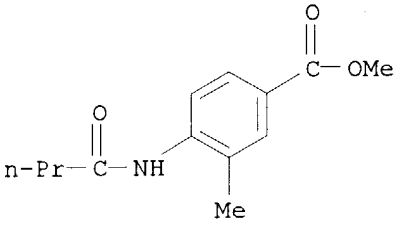
AB The title ester (I, R = COOMe) is prepared in 3 steps from o-toluidine via I (R = Br).

IT **301533-59-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of Me 4-butanamido-3-methylbenzoate from toluidine)

RN 301533-59-5 CAPLUS

CN Benzoic acid, 3-methyl-4-[(1-oxobutyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:738802 CAPLUS

DN 133:298017

TI Regioselective nitration of aniline derivatives and benzimidazoles therefrom

IN Schneider, Heinrich

PA Boehringer Ingelheim Pharma K.-G., Germany

SO Ger. Offen., 6 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 19917524	A1	20001019	DE 1999-19917524		19990417
	DE 19917524	C2	20010920			
	WO 2000063158	A1	20001026	WO 2000-EP3247		20000412
	W: CA, JP, MX, US					
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
				DE 1999-19917524	A	19990417
	EP 1173407	A1	20020123	EP 2000-917076		20000412
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				WO 2000-EP3247	W	20000412
	JP 2002542222	T2	20021210	JP 2000-612254		20000412
				DE 1999-19917524	A	19990417
				WO 2000-EP3247	W	20000412

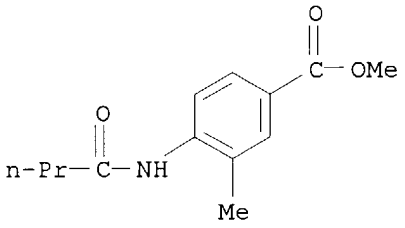
OS MARPAT 133:298017

AB The highly regioselective nitration of 4-(alkanoylamino)-3-alkylbenzoic acid esters in the 5-position is carried out using a mixture of sulfuric and nitric acids followed by a subsequent addition of nitric acid alone. The nitro group may be reduced to an amine group and the product then converted to a benzimidazole. Thus, Me 4-(butyrylamino)-3-methylbenzoate was nitrated with a mixture of sulfuric and nitric acids, with further addition of nitric acid to give 91% Me 4-(butyrylamino)-3-methyl-5-nitrobenzoate virtually free os isomers. Procedures employing no second addition of nitric acid or using sulfuric acid alone followed by a nitric-sulfuric acid mixture resulted in an appreciable amount of the 2- and 6-nitro isomers.

IT **301533-59-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(regioselective nitration of)

RN 301533-59-5 CAPLUS

CN Benzoic acid, 3-methyl-4-[(1-oxobutyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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